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4. (Amended) A method of quantitating IL-6, said method comprising:

(a) providing a first bone marrow preparation from an individual diagnosed with a multiple myeloma-related plasmaproliferative disorder and a second bone marrow preparation from a normal individual; and

(b) quantitating the amount of IL-6 produced by stromal cells cultured with said first and second bone marrow preparations, wherein progression to multiple myeloma is indicated if said amount of IL-6 produced by stromal cells cultured with said first bone marrow preparation is greater than said amount of IL-6 produced by stromal cells cultured with said second bone marrow preparation, and wherein progression to multiple myeloma is not indicated if said amount of IL-6 produced by stromal cells cultured with said first bone marrow preparation is less than or similar to said amount of IL-6 produced by stromal cells cultured with said second bone marrow preparation.

- 5. (Amended) The method of claim 4, wherein said multiple myeloma-related plasmaproliferative disorder is smoldering multiple myeloma.
- 8. (Amended) The method of any one of claims 1, 2, 4, or 5, wherein said bone marrow preparation is selected from the group consisting of a fresh supernatant from cultured bone marrow cells, a previously frozen supernatant from cultured bone marrow cells and a mononuclear cell preparation purified from bone marrow.
- 15. (Amended) A method of monitoring the status of multiple myeloma in an individual, said method comprising:
- a) obtaining an earlier bone marrow preparation and a later bone marrow preparation from said individual, said individual undergoing treatment for multiple myeloma, at least one of said bone marrow preparations obtained after initiation of said treatment; and
- b) determining the amount of IL-6 produced by stromal cells cultured with said earlier bone marrow preparation and determining the amount of IL-6 produced by stromal cells cultured with said later bone marrow preparation, wherein progression of said multiple myeloma

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status is indicated if said amount of IL-6 produced by stromal cells cultured with said later bone marrow preparation is greater than said amount of IL-6 produced by stromal cells cultured with said earlier bone marrow preparation, wherein improvement of said multiple myeloma status is indicated if said amount of IL-6 produced by stromal cells cultured with said later bone marrow preparation is less than said amount of IL-6 produced by stromal cells cultured with said earlier bone marrow preparation, and wherein stability of said multiple myeloma status is indicated if said amount of IL-6 produced by stromal cells cultured with said later bone marrow preparation is similar to said amount of IL-6 produced by stromal cells cultured with said earlier bone marrow preparation.

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28. (Amended) The method of claim 1, wherein said bone marrow preparation is from an individual diagnosed with indolent multiple myeloma. --

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Please add claims 29-35.



- -- 29. The method of claim 1, wherein said bone marrow preparation is from an individual diagnosed with monoclonal gammopathy of undetermined significance.
- 30. The method of claim 4, wherein said multiple myeloma-related plasmaproliferative disorder is indolent multiple myeloma.
- 31. The method of claim 4, wherein said multiple myeloma-related plasmaproliferative disorder is monoclonal gammopathy of undetermined significance.
 - 32. A method of quantitating IL-6, said method comprising:
- (a) providing a bone marrow preparation from an individual diagnosed with a multiple myeloma-related plasmaproliferative disorder; and
- (b) quantitating the amount of IL-6 produced by stromal cells cultured with said bone marrow preparation, wherein progression to multiple myeloma is indicated if said amount of IL-

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6 produced by said stromal cells is greater than the amount of IL-6 produced by stromal cells cultured with a standard amount of IL-1 β , and wherein progression to multiple myeloma is not indicated if said amount of IL-6 produced by said stromal cells is less than or similar to the amount of IL-6 produced by stromal cells cultured with a standard amount of IL-1 β .

- 33. The method of claim 32, wherein said multiple myeloma-related plasmaproliferative disorder is smoldering multiple myeloma.
- 34. The method of claim 32, wherein said multiple myeloma-related plasmaproliferative disorder is indolent multiple myeloma.
- 35. The method of claim 32, wherein said multiple myeloma-related plasmaproliferative disorder is monoclonal gammopathy of undetermined significance. --